INTERNATIONAL SEARCH REPORT

International application No.

A CI ACCIDICATION OF CARD	PCT/JP2004/007175	
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01L23/02, H03H9/25		
According to International Patent Classification (IPC) or to both national classification and IP	PC .	
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ H01L23/02, H03H9/25		
Documentation searched other than minimum documentation to the extent that such documentation searched other than minimum documentation to the extent that such documentation that	hinan Koho 1994-2004	
Electronic data base consulted during the international search (name of data base and, where pro-		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where appropriate, of the relevant	ant passages Relevant to claim No.	
A JP 2002-170895 A (Kyocera Corp.), 14 June, 2002 (14.06.02), Claims 1, 2; Par. Nos. [0013] to [0022], (Family: none)	1-5	
A JP 7-50360 A (NGK Spark Plug Co., Ltd.), 21 February, 1995 (21.02.95), Claim 1; Par. Nos. [0011] to [0012], [001 & US 5779081 A	1-5	
A JP 9-266263 A (Sumitomo Metal (SMI) Elect Devices Inc.), 07 October, 1997 (07.10.97), Claims 1 to 4 (Family: none)	tronics 1-5	
Further documents are listed in the continuation of Box C. See patent family.	ily anney	
Special categories of cited documents: 'A" document defining the general state of the art which is not considered to be of particular relevance E" earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "T" later document publisher and to in considered to the principle or the considered novel step when the document of particular referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "E" later document publisher and to in considered to the principle or the considered novel step when the document of particular referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "E" later document publisher and to in considered to the principle or the date and not in considered to the principle or the principle	date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
21 Septem	e international search report aber, 2004 (21.09.04)	
Name and mailing address of the ISA/ Japanese Patent Office Authorized officer		
rm PCT/ISA/210 (second sheet) (January 2004) Telephone No.		

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PCT/JP2004/007175

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT	FCI/UPZ	004/007175
Category*	Citation of document, with indication, where appropriate, of the relev	ant nascoger	Dalarration 1 -
A	JP 2002-198761 A (Murata Mfg. Co., Ltd.) 12 July, 2002 (12.07.02), Par. Nos. [0048] to [0057] (Family: none)		Relevant to claim No.
E, A	JP 2003-188294 A (Murata Mfg. Co., Ltd.) 04 July, 2003 (04.07.03), Figs, 1 to 3; Par. Nos. [0022] to [0026] (Family: none)	,	1-5
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	(continuation of second sheet) (January 2004)		